



(19)

(11) Publication number: 08063789
A

Generated Document.

PATENT ABSTRACTS OF JAPAN

(21) Application number: 06194299

(51) Intl. Cl.: G11B 7/24

(22) Application date: 18.08.94

(30) Priority:	(71) Applicant: SONY CORP
(43) Date of application publication: 08.03.96	(72) Inventor: KASAMI YUTAKA YASUDA KOICHI
(84) Designated contracting states:	(74) Representative:

(54) OPTICAL DISK

(57) Abstract:

PURPOSE: To obtain an ultrahigh resolution reproducing optical disk capable of simultaneously enhancing sensitivity and optical contrast.

CONSTITUTION: At least a phase change material layer 3 and a reflecting layer 4 are formed on a transparent substrate 1 with formed recording pits 2 capable of optical readout in accordance with an information signal to obtain the objective optical disk. At the time of irradiation with readout light, the phase change material layer 3 is partially converted into a liq. phase in a scanning spot of the readout light to vary its reflectance. The reflecting layer 4 is especially made of a

substance selected from among a metallic element, a metalloid element, a semiconductor element and their compds. or their mixture each having $\leq 0.2\text{J/cm.K.s}$ heat conductivity and an extinction coefft. (k) of ≥ 4 (complex index of refraction to the wavelength of readout light is $n-ik$) and the thickness of the layer 4 is especially regulated to $\leq 35\text{nm}$.

COPYRIGHT: (C)1996,JPO

